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[R₁ - P - R₄] Θ Y Θ

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TITLE : PRODUCTION OF QUATERNARY
PHOSPHONIUM COMPOUND

[R₁ - P - R₄] Θ A Θ

ABSTRACT : PURPOSE: To obtain the titled compound useful for antiseptics, herbicides, plant growth-regulating agents, germicides, antistatic agents, resin modifying agents, etc., by reacting a specific quaternary phosphonium compound with a sulfonate compound in a specific solvent.

CONSTITUTION: (A) A quaternary phosphonium compound expressed by formula I [R₁~R₃ represent 1~22C alkyl, alkylaryl, 2~22C alkenyl, aryl, aralkyl, etc.; R₄ represents 1~22C alkyl benzyl, cyanoethyl, phenethyl, R₆O(MO)_mM- (R₆ represents 1~22C alkyl, alkenyl, etc.; M represents 1~4C alkylene or phenethyl; m is 1~100), etc.; Y represents halogen atom] is reacted with (B) a compound expressed by the formula R₇SO₃M [R₇ represents HOCH₂CH₂-, CH₂=CH-CH₂-, etc.; M represents alkali (earth) metal] in a solvent such as 1~6C alcohol, methyl ethyl ketone, dimethyl sulfoxide, DMF, dioxane, ethyl acetate, etc., to afford the aimed compound expressed by formula II. (A⁻ represents R₇SO₃⁻).

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